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(54) **SYSTEM AND METHOD FOR A
PHYSIOCHEMICAL SCALPEL TO
ELIMINATE BIOLOGIC TISSUE
OVER-RESECTION AND INDUCE TISSUE
HEALING**

(75) Inventors: **Wayne K. Augè, II**, Santa Fe, NM (US);
Roy E. Morgan, Alameda, CA (US)

(73) Assignee: **NUORTHO SURGICAL, INC.**, Fall
River, MA (US)

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patent is extended or adjusted under 35
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CPC **A61B 18/12** (2013.01); **A61B 2018/1472**
(2013.01); **A61N 1/327** (2013.01); **A61N 1/40**
(2013.01); **A61N 1/44** (2013.01)

(58) **Field of Classification Search**
CPC ... A61B 18/12; A61B 2018/1472; A61N 1/44
USPC 606/45; 607/76
See application file for complete search history.

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Primary Examiner — Niketa Patel

Assistant Examiner — Lindsey G Hankins

(74) *Attorney, Agent, or Firm* — Peacock Myers, P.C.;
Janeen Vilven; Deborah A. Peacock

(57) **ABSTRACT**

Removal of damaged tissue itself can enable biosynthetic activity in vivo as an unburdened homeostatic or repair response. By removing a biologic and mechanical irritant, the lesion site can be altered to a more favorable perturbation-specific mechanotransductive environment supportive of differentiated gene expression. One aspect of one embodiment of the present invention provides an engineered irrigant that produces ion exchanges in tissues for example deliver of protons which interact with biology tissues.

19 Claims, 13 Drawing Sheets
(3 of 13 Drawing Sheet(s) Filed in Color)

